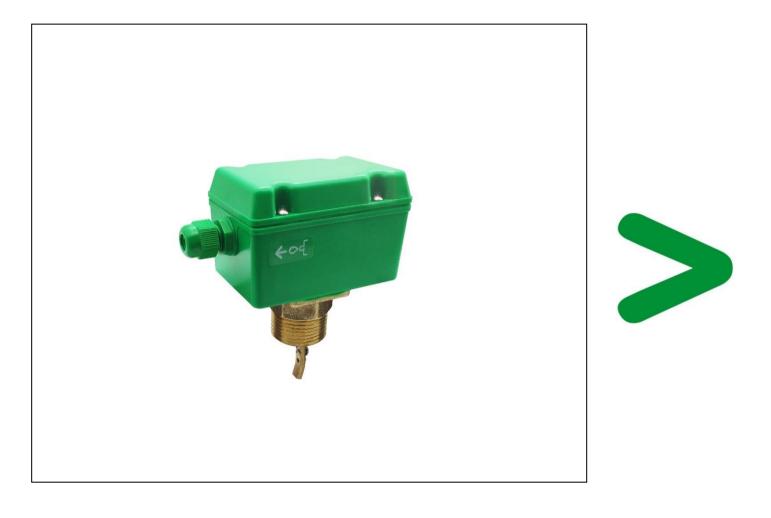
Product Environmental Profile

Water Flow Switch

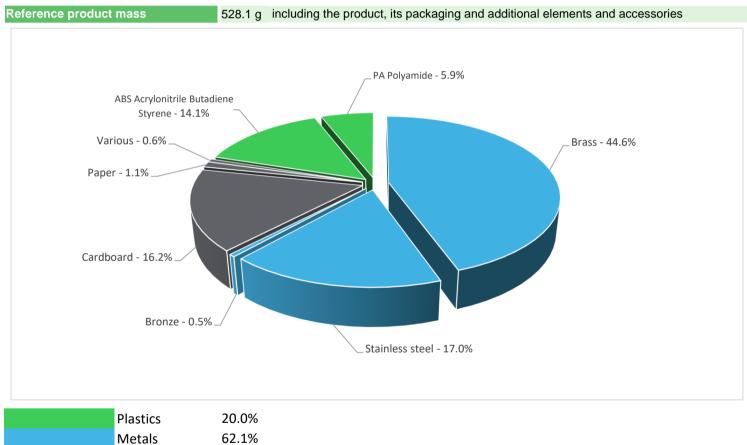




General information

Representative product	Water Flow Switch - CP-LI-FL-SW-BSP0
Description of the product	Liquid flow switch is a mechanical device which is driven by water flow to control switch closure by displacement of magnetic core.
Functional unit	The liquid flow switch provides an alarm signal to the system to protect its normal operation. This function is ensured in accordance with the following parameters: Pipe connection: NPT/BSP Wire connection: Screw Electrical Rating: 250VAC 10A(R)/3A(L) Operation temp: 0C-110C IP53 in accordance with the standard IEC 60529

Constituent materials



Others 17.9%

E Substance assessment

Products of this range are designed in conformity with the requirements of the RoHS directive (European Directive 2011/65/EU of 2 January 2013, amended in March 2015, 2015/863/EU and in November 2017, 2017/2102/EU) and do not contain, or only contain in the authorised proportions, lead, mercury, cadmium, hexavalent chromium or flame retardants (polybrominated biphenyls - PBB, polybrominated diphenyl ethers – PBDE), Bis (2-ethylhexyl)phthalate - DEHP, Benzyl butyl phthalate– BBP, Dibutyl phthalate - DBP, Disobutyl phthalate - DIBP) as mentioned in the Directive.

Details of ROHS and REACH substances information are available on the Schneider-Electric Green Premium website

http://www2.schneider-electric.com/sites/corporate/en/products-services/green-premium/green-premium.page

Additional environmental information

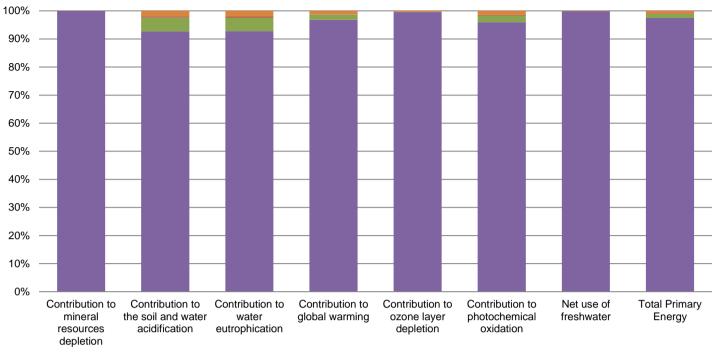
	The Water Flow Switch presents the following relevent environmental aspects					
Manufacturing	Manufactured at a Schneider Electric production site ISO14001 certified					
	Weight and volume of the packaging optimized, based on the European Union's packaging directive					
Distribution	Packaging weight is 89.1 g, consisting of Cardboard(93.38%), paper(6.62%)					
	Product distribution optimised by setting up local distribution centres					
Installation	Ref CP-LI-FL-SW-BSP0 does not require any installation operations.					
Use	The product does not require special maintenance operations.					
	End of life optimized to decrease the amount of waste and allow recovery of the product components and materials					
End of life	No special end-of-life treatment required. According to countries' practices this product can enter the usual end-of-life treatment process.					
	Recyclability potential:78%Based on "ECO'DEEE recyclability and recoverability calculation method" (version V1, 20 Sep. 2008 presented to the French Agency for Environment and Energy Management: ADEME).					

O Environmental impacts

Reference life time	10 years					
Product category	Other equipments - Active product					
Installation elements	No special installation components need during installation phase, but transport of packaging to disposal, and disposal of packaging accounted for during installation.					
Use scenario	This product is equivalent to a mechanical switch without electricity.					
Geographical representativeness	China					
Technological representativeness	Liquid flow switch is a mechanical device which is driven by water flow to control switch closure by displacement of magnetic core.					
	Manufacturing	Installation	Use	End of life		
Energy model used	Energy model used: China	Electricity mix; AC; consumption mix, at consumer; 220V; CN	Electricity mix; AC; consumption mix, at consumer; 220V; CN	Electricity mix; AC; consumption mix, at consumer; 220V; CN		

Water Flow Switch - CP-LI-FL-SW-BSP0						
Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
kg Sb eq	3.12E-04	3.12E-04	0*	0*	0*	0*
kg SO ₂ eq	6.22E-03	5.76E-03	3.11E-04	2.01E-05	0*	1.24E-04
kg PO4 ³⁻ eq	1.49E-03	1.38E-03	7.17E-05	4.88E-06	0*	3.07E-05
kg CO ₂ eq	3.78E+00	3.66E+00	6.81E-02	4.82E-03	0*	4.71E-02
kg CFC11 eq	6.66E-07	6.63E-07	1.38E-10	0*	0*	2.67E-09
kg C_2H_4 eq	9.19E-04	8.82E-04	2.22E-05	1.50E-06	0*	1.33E-05
Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
m3	6.12E-02	6.12E-02	0*	0*	0*	5.12E-05
MJ	6.47E+01	6.31E+01	9.63E-01	6.30E-02	0*	6.20E-01
	kg Sb eq kg SO ₂ eq kg PO ₄ ³⁻ eq kg CO ₂ eq kg CFC11 eq kg C ₂ H ₄ eq Unit m3	Unit Total kg Sb eq 3.12E-04 kg SO ₂ eq 6.22E-03 kg PO ₄ ³⁻ eq 1.49E-03 kg CO ₂ eq 3.78E+00 kg CFC11 eq 6.66E-07 kg C ₂ H ₄ eq 9.19E-04 Unit Total m3 6.12E-02	Unit Total Manufacturing kg Sb eq 3.12E-04 3.12E-04 kg SO ₂ eq 6.22E-03 5.76E-03 kg PO ₄ ³⁻ eq 1.49E-03 1.38E-03 kg CO ₂ eq 3.78E+00 3.66E+00 kg CFC11 eq 6.66E-07 6.63E-07 kg C ₂ H ₄ eq 9.19E-04 8.82E-04 Unit Total Manufacturing m3 6.12E-02 6.12E-02	Unit Total Manufacturing Distribution kg Sb eq 3.12E-04 3.12E-04 0* kg SO ₂ eq 6.22E-03 5.76E-03 3.11E-04 kg PO ₄ ³⁻ eq 1.49E-03 1.38E-03 7.17E-05 kg CO ₂ eq 3.78E+00 3.66E+00 6.81E-02 kg CFC11 eq 6.66E-07 6.63E-07 1.38E-10 kg C ₂ H ₄ eq 9.19E-04 8.82E-04 2.22E-05 Unit Total Manufacturing Distribution m3 6.12E-02 6.12E-02 0*	UnitTotalManufacturingDistributionInstallationkg Sb eq $3.12E-04$ $3.12E-04$ 0^* 0^* kg SO ₂ eq $6.22E-03$ $5.76E-03$ $3.11E-04$ $2.01E-05$ kg PO ₄ ^{3.} eq $1.49E-03$ $1.38E-03$ $7.17E-05$ $4.88E-06$ kg CO ₂ eq $3.78E+00$ $3.66E+00$ $6.81E-02$ $4.82E-03$ kg CFC11 $6.66E-07$ $6.63E-07$ $1.38E-10$ 0^* kg C ₂ H ₄ eq $9.19E-04$ $8.82E-04$ $2.22E-05$ $1.50E-06$ UnitTotalManufacturingDistributionInstallationm3 $6.12E-02$ $6.12E-02$ 0^* 0^*	UnitTotalManufacturingDistributionInstallationUsekg Sb eq $3.12E-04$ $3.12E-04$ 0^* 0^* 0^* kg SO ₂ eq $6.22E-03$ $5.76E-03$ $3.11E-04$ $2.01E-05$ 0^* kg PO ₄ ³⁻ eq $1.49E-03$ $1.38E-03$ $7.17E-05$ $4.88E-06$ 0^* kg CO ₂ eq $3.78E+00$ $3.66E+00$ $6.81E-02$ $4.82E-03$ 0^* kg CFC11 eq $6.66E-07$ $6.63E-07$ $1.38E-10$ 0^* 0^* kg C ₂ H ₄ eq $9.19E-04$ $8.82E-04$ $2.22E-05$ $1.50E-06$ 0^* UnitTotalManufacturingDistributionInstallationUsem3 $6.12E-02$ 0^* 0^* 0^* 0^*

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Manufacturing	Distribution	Installation	Use	End of life
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Optional indicators		Water Flow	Switch - CP-LI-FL	-SW-BSP0			
Impact indicators	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Contribution to fossil resources depletion	MJ	4.27E+01	4.12E+01	9.57E-01	6.25E-02	0*	4.98E-01
Contribution to air pollution	m³	1.83E+03	1.83E+03	2.90E+00	1.92E-01	0*	4.40E+00
Contribution to water pollution	m³	2.20E+02	2.03E+02	1.12E+01	7.31E-01	0*	4.87E+00
Resources use	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Use of secondary material	kg	1.05E-01	1.05E-01	0*	0*	0*	0*
Total use of renewable primary energy resources	MJ	1.20E+00	1.19E+00	1.28E-03	0*	0*	6.93E-04
Total use of non-renewable primary energy resources	MJ	6.36E+01	6.19E+01	9.62E-01	6.29E-02	0*	6.19E-01
Use of renewable primary energy excluding renewable primary energy used as raw material	MJ	8.47E-01	8.45E-01	1.28E-03	9.78E-05	0*	6.93E-04
Use of renewable primary energy resources used as raw material	MJ	3.48E-01	3.48E-01	0*	0*	0*	0*
Use of non renewable primary energy excluding non renewable primary energy used as raw material	MJ	5.90E+01	5.73E+01	9.62E-01	6.29E-02	0*	6.19E-01
Use of non renewable primary energy resources used as raw material	MJ	4.59E+00	4.59E+00	0*	0*	0*	0*
Use of non renewable secondary fuels	MJ	0.00E+00	0*	0*	0*	0*	0*
Use of renewable secondary fuels	MJ	0.00E+00	0*	0*	0*	0*	0*
Waste categories	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Hazardous waste disposed	kg	2.43E+01	2.38E+01	0*	0*	0*	5.20E-01
Non hazardous waste disposed	kg	1.53E+00	1.52E+00	2.42E-03	6.55E-04	0*	1.91E-03
Radioactive waste disposed	kg	7.06E-04	7.02E-04	1.72E-06	1.29E-07	0*	2.96E-06
Other environmental information	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Materials for recycling	kg	4.73E-01	5.12E-02	0*	8.87E-02	0*	3.34E-01
Components for reuse	kg	0.00E+00	0*	0*	0*	0*	0*
Materials for energy recovery	kg	2.40E-03	0*	0*	0*	0*	2.40E-03
Exported Energy	MJ	2.82E-04	2.65E-05	0*	2.55E-04	0*	0*

* represents less than 0.01% of the total life cycle of the reference flow

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Life cycle assessment performed with EIME version EIME v5.9.3, database version 2020-12 in compliance with ISO14044.

The manufacturing phase is the life cycle phase which has the greatest impact on the majority of environmental indicators (based on compulsory indicators).

Please note that the values given above are only valid within the context specified and cannot be used directly to draw up the environmental assessment of an installation.

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Independent verificati	on of the declaration and d	ta	
Internal X	External		
The elements of the p	resent PEP cannot be com	pared with elements from another program.	
Document in compliar environmental labellin		Environmental labels and declarations - Self-decl	lared environmental claims (Type II
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